

Response under 37 C.F.R. §1.111
Attorney Docket No. 030932
Serial No. 10/644,062

REMARKS

Claims 1-6 are pending in the application, and are rejected. Claims 1-6 are herein added.
Claim 7 is herein added. No new matter has been entered.

Claim Rejections - 35 U.S.C. §112

Claims 3 and 4 are rejected under 35 U.S.C. §112, second paragraph for failing to disclose what M, N and A are.

Applicants note that due to typographical and spacing errors, the symbols for moles (M), sodium carbonate (NaCO₃) and sodium chloride (NaCl) appear as not clear. Applicants herein amend the claims to clarify the compositions and amounts.

Claims 5 and 6 are rejected under 35 U.S.C. §112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements. The Examiner asserts that it is not clear how the coolant reacts with the metal device, and whether it is contained within or coated on the device.

Applicants herein clarify this claim. Further with respect to claim 6, Applicants note that it inadvertently depended from claim 3, instead of claim 5. Applicants herein amend the claim to correct its dependency.

Claim Rejections - 35 U.S.C. §102

Claims 1 and 2 are rejected under 35 U.S.C. §102(b) as being anticipated by Uekusa et al. (U.S. Patent No. 5,387,360 A).

The Examiner asserts that Uekusa et al. teaches that it is known to use a glycol coolant containing a corrosion inhibitor, where corrosion inhibitors suitable for use in the antifreeze

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coolant composition may include phosphates, amine salts, borates, nitrates, nitrites, molybdates, tungstates, benzoates, triazoles, thiazoles, fatty acid salts and mixtures thereof. The Examiner further notes that typical examples of the corrosion inhibitor of the invention of the cited reference include conventional inhibitors such as orthophosphoric acid, octanoic acid, sebacic acid, para-tert-butyl benzoate, sodium benzoate, mercaptobenzothiazole sodium salt, benzotriazole, tolytriazole (sic: “tolytriazole”), sodium nitrate, sodium nitrite, and potassium hydroxide.

Applicants herein amend claims 1-6 to clarify the claims, and add new claim 7. Thereafter, Applicants respectfully disagree with the rejection because not all of the claimed limitations are taught or suggested by the cited reference.

Applicants first note that the coolant of Uekusa et al. is for an engine coolant, whereas the coolant of the present invention is for a machine as additionally defined in the above claims, Applicants submit that the engine coolant of Uekusa et al. is composed of an anti-freezing solution including glycol group as main component to which citric acid and/or its salt is included as essential component.

On the contrary, the machine coolant of the present invention does not include citric acid and/or its salt as well as glycol group. In order to make clear the characteristic feature of the coolant of this invention, Applicants herein incorporate such feature into amended claim 1 and 2. That is, the machine coolant does not contain a mineral oil and contains a water-soluble substance including amine and inorganic salt, and has composition of surface active agent (organic amine salt, boric acid amine salt, organic amine, organic amanoide type rust preventives), which also acts as a rust preventive, nonferrous metal anticorrosive (triasol type

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compound), antiseptic agent (xylenol type compound), and water. Applicants submit that such feature is neither disclosed nor taught in Uekusa et al.

In addition, Applicants herein amend claim 5 so as to be coincident with the machine coolant in claim 1 and added that both the carbon steel and sodium nitrite are likely combined so as to easily form a film for suppressing the generation of the crevice corrosion. Applicants note that this feature is not also disclosed in Uekusa et al.

Drawing Changes

Applicants herein change “VOLTAGE” to “POTENTIAL” in Figs. 1 and 3 to agree with the specification.

In view of the aforementioned amendments and accompanying remarks, Applicants submit that the claims, as herein amended, are in condition for allowance. Applicants request such action at an early date.

If the Examiner believes that this application is not now in condition for allowance, the Examiner is requested to contact Applicants' undersigned attorney to arrange for an interview to expedite the disposition of this case.

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If this paper is not timely filed, Applicants respectfully petition for an appropriate extension of time. The fees for such an extension or any other fees that may be due with respect to this paper may be charged to Deposit Account No. 50-2866.

Respectfully submitted,

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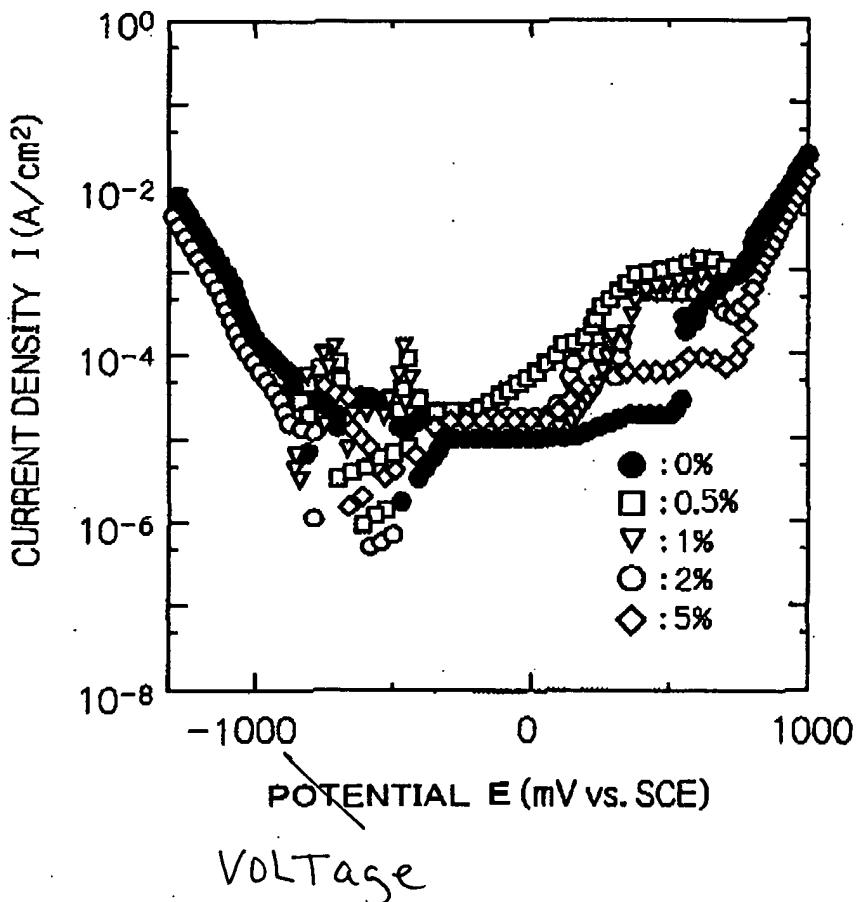


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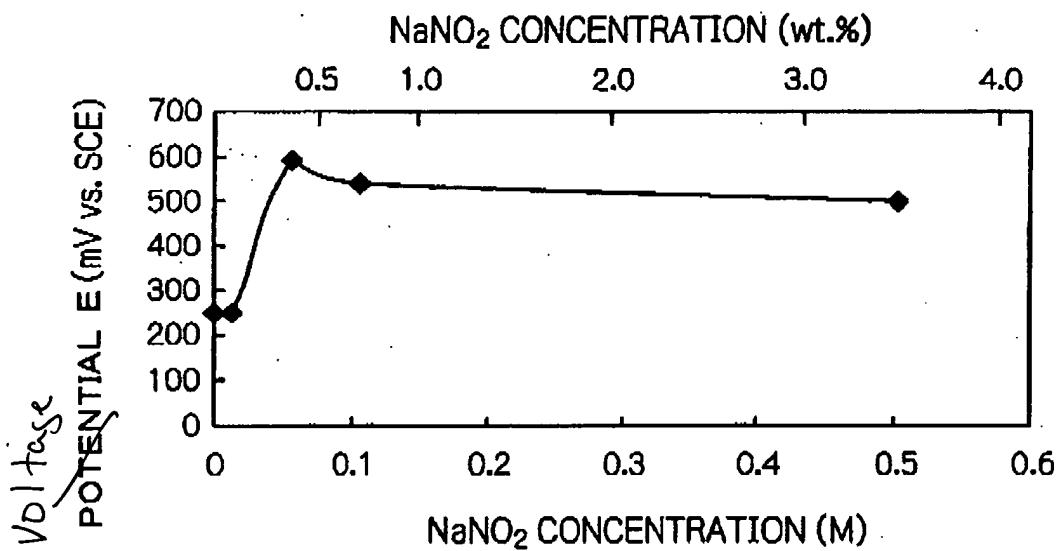
Enclosures: Replacement sheets for Figs. 1 and 3

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FIG.2



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FIG.3

